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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/646,478	03/04	1/2002	Jin Jen	126881201800	1461
30089	7590	10/18/2005		EXAM	INER
			NGHAM MCCUTCHEN	RAWLINGS,	STEPHEN L
	MCCUTCHE CISCO, CA	,		ART UNIT .	PAPER NUMBER
	ŕ			1643	
	•			DATE MAILED: 10/18/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/646,478	JEN ET AL.
Office Action Summary	Examiner	Art Unit
	Stephen L. Rawlings, Ph.D.	1643
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SiX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>05 Ar</u>	ugust 2005.	
	action is non-final.	
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims		
4) Claim(s) 1,2 and 4-30 is/are pending in the app	olication.	•
4a) Of the above claim(s) <u>2,4-11 and 14-30</u> is/a		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1,12 and 13</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine	r	
10) ☐ The drawing(s) filed on 15 September 2000 is/a		ted to by the Examiner
Applicant may not request that any objection to the		•
Replacement drawing sheet(s) including the correct	-,,	, ,
11) The oath or declaration is objected to by the Ex		• • •
Priority under 35 U.S.C. § 119		
<u> </u>	ndodity under 25 H C C C 440(a)	(d) on (6)
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	phonty under 35 U.S.C. § 119(a))-(a) or (i).
1. Certified copies of the priority documents	s have been received	
2. Certified copies of the priority documents		on No
3. Copies of the certified copies of the prior	• •	
application from the International Bureau	•	od III tillo Mational Otago
* See the attached detailed Office action for a list		ed.
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Attachment(s)	n□	(DTO 443)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20041102.		atent Application (PTO-152)
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Application/Control Number: 09/646,478 Page 2

Art Unit: 1643

DETAILED ACTION

1. The amendment filed March 21, 2005 is acknowledged and has been entered. Claims 12 and 13 have been amended.

- 2. The amendment filed April 20, 2005 is acknowledged and has been entered.
- 3. The amendment filed August 5, 2005 is acknowledged and has been entered. Claim 3 has been canceled. Claims 1, 12, and 13 have been amended.
- 4. Claims 1, 2, and 4-30 are pending in the application. Claims 2, 4-11, and 14-30 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on July 7, 2004.
- 5. Claims 1, 12, and 13, drawn to the elected invention, are currently under prosecution.
- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Information Disclosure Statement

7. The information disclosure filed October 29, 2004 has been considered. An initialed copy is enclosed.

Oath/Declaration

8. As explained the preceding Office action mailed October 20, 2004, the declaration is defective. Accordingly, a new oath or declaration in compliance with 37

Art Unit: 1643

CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: Non-dated alterations have been made. See 37 CFR § 1.52(c).

At page 6 of the amendment filed April 20, 2005 Applicant has stated that a new declaration will be provided; however, until it is provided, this issue will remain unresolved.

Grounds of Objection and Rejection Withdrawn

9. Unless specifically reiterated below, Applicant's amendment and/or arguments filed in response to the preceding Office action mailed October 20, 2004 have obviated or rendered moot the grounds of objection and rejection set forth in that Office action.

Claim Rejections Maintained

Claim Rejections - 35 USC § 102

10. The rejection of claims 1, 12, and 13 under 35 U.S.C. 102(b) as being anticipated by Mooi et al. (*Histopathology*. 1988 Sep; **13** (3): 329-337), as evidenced by Wilkinson et al. (*Science*. 1989 Nov 3; **246** (4930): 670-673), is maintained.

At pages 3 and 4 of the amendment filed March 21, 2005 and at pages 7 and 8 of the amendment filed April 20, 2005 Applicant has traversed this ground of rejection.

Applicant's arguments have been carefully considered but not found persuasive for the following reasons:

Applicant has argued that Mooi et al. does not anticipate each and every limitation of the claims, since, in particular, Mooi et al. does not explicitly teach the proto-oncogene encoding PGP9.5 is "over-expressed" in lung cancer, or that its over-expression is indicative of a neoplastic condition of lung cells.

The claims are drawn to a method for aiding in the diagnosis of a neoplastic condition of the lung comprising detecting the presence of "an overexpressed proto-oncogene", namely PGP9.5 in a lung cell sample (claim 1), wherein the presence of the overexpressed proto-oncogene is determined by detecting the quantity of the protein

Art Unit: 1643

encoded by the gene (claim 12) or wherein the neoplastic condition of a lung cell is non-small cell lung cancer (claim 13).

As explained in the preceding Office action, Mooi et al. teaches a method for aiding in the diagnosis of a neoplastic condition of the lung comprising detecting the presence of PGP9.5 (i.e., the protein encoded by the proto-oncogene to which the claims are directed) in a lung sample. Mooi et al. teaches the presence of PGP9.5 in lung cancer samples is indicative of non-small cell lung cancer.

As evidenced by Wilkinson et al., the gene encoding PGP9.5 is only expressed in select neurons and ganglia; therefore, it is not expressed in normal lung; see page 7, section 13, paragraph 4. Accordingly, any amount of expression of the gene in lung cells, including lung cancer cells, is reasonably considered "over-expression" (i.e., a level of expression higher than normal).

Accordingly, although Mooi et al. does not expressly teach that the gene is overexpressed *per se*, because Wilkinson et al. teaches that the gene encoding PGP9.5 is not expressed in normal lung, if this proto-oncogene is expressed to any extent in lung cell cancer, it is "over-expressed".

Further addressing Applicant's argument that reference does not teach the use of PGP9.5 as a tumor cell marker, Mooi et al. expressly teaches non-small cell lung carcinomas with neuroendocrine features, including the expression of the proto-oncogene encoding PGP9.5; see, e.g., the abstract. Moreover, Mooi et al. teaches identification of neuroendocrine differentiation in lung tissue aids in the diagnostic classification of lung cancer (abstract). Therefore, contrary to Applicant's assertion, Mooi et al. does indeed teach the use of PGP9.5 as a tumor cell marker.

Applicant's remaining remarks at pages 3 and 4 of the amendment filed March 21, 2005 are acknowledged, but they do not serve to differentiate the claimed process from the process disclosed by the prior art.

At page 8 of the amendment filed April 20, 2005 Applicant has asserted that it is improper to cite Wilkinson et al. as a basis for a rejection under 35 U.S.C. § 102, as such a rejection requires that all elements of the claim be taught by a single reference.

MPEP § 2112 states:

Application/Control Number: 09/646,478

Art Unit: 1643

The express, implicit, and inherent disclosures of a prior art reference may be relied upon in the rejection of claims under 35 U.S.C. 102 or 103. "The inherent teaching of a prior art reference, a question of fact, arises both in the context of anticipation and obviousness." *In re Napier*, 55 F.3d 610, 613, 34 USPQ2d 1782, 1784 (Fed. Cir. 1995) (affirmed a 35 U.S.C. 103 rejection based in part on inherent disclosure in one of the references). See also *In re Grasselli*, 713 F.2d 731, 739, 218 USPQ 769, 775 (Fed. Cir. 1983).

There is no requirement that a person of ordinary skill in the art would have recognized the inherent disclosure at the time of invention, but only the subject matter is in fact inherent in the prior art reference. Schering Corp. v. Geneva Pharm. Inc., 339 F.3d 1373, 1377, 67 USPQ2d 1664, 1668 (Fed. Cir. 2003).

MPEP § 2112 further states that the Examiner <u>must</u> provide rationale or evidence tending to show inherency:

The fact that a certain result or characteristic <u>may</u> occur or be present in the prior art is not sufficient to establish inherency of that result or characteristic. *In re Rijckaert*, 9 F.3d 1531, 1534, 28 USPQ2d 1955, 1957 (Fed. Cir. 1993) [...]. "To establish inherency, the extrinsic evidence must make clear the missing descriptive matter is necessarily present in the thing described in the reference, and that it would be so recognized by persons of ordinary skill [...] *In re Robertson*, 169 F.3d 743, 745, 49 USPQ2d 1949, 1950-51 (Fed. Cir. 1999) [.]

Furthermore, MPEP 2131.01 states:

"To serve as an anticipation when the reference is silent about the asserted inherent characteristic, such a gap in the reference may be filled with recourse to extrinsic evidence. Such evidence must make clear that the missing descriptive matter is necessarily present in the thing described in the reference, and that is would be so recognized by persons of ordinary skill." *Continental Can Co. USA v. Monsanto Co.*, 948 F.2d 1264, 1268, 20 USPQ2d 1746, 1749 (Fed. Cir. 1991) [....] Note that as long as there is evidence of record establishing inherency, failure of those skilled in the art to contemporaneously recognize an inherent property, function or ingredient of a prior art reference does not preclude a finding of anticipation. *Atlas Powder Co. v. IRECO, Inc.*, 190 F.3d 1342, 1349, 51 USPQ2d 1943, 1948 (Fed. Cir. 1999) [....] [T]he critical date of extrinsic evidence showing a universal fact need not antedate the filing date. See MPEP § 2124.

Therefore, contrary to Applicant's assertion, Wilkinson et al. is properly cited as an evidentiary reference showing that the proto-oncogene encoding PGP9.5 is not expressed in lung cells.

As explained above, even though Mooi et al. does not teach the proto-oncogene is "over-expressed" per se, Mooi et al teaches all elements of the claims, since, as evidenced by Wilkinson et al., the proto-oncogene is not expressed in normal lung

Application/Control Number: 09/646,478 Page 6

Art Unit: 1643

tissue and therefore any amount of expression in lung cancer is reasonably deemed "over-expression".

Thus, Applicant's arguments have been carefully considered but not found persuasive to overcome this ground of rejection.

Conclusion

11. No claim is allowed.

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen L. Rawlings, Ph.D. whose telephone number is (571) 272-0836. The examiner can normally be reached on Monday-Friday, 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms, Ph.D. can be reached on (571) 272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/646,478

Art Unit: 1643

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen L. Rawlings, Ph.D.

Examiner Art Unit 1643

slr October 14, 2005

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Substitute for form1449A-PTO NOV 0 2 2004	Application Number	09/646,478
INFORMATION DISCLOSURE	Filing Date	March 4, 2002
STATEMENT BY APPLICANT	First Named Inventor	Jin Jen
STATEWENT DT-APPLICANT	Art Unit	1642
(use as many sheets as necessary)	Examiner Name	Rawlings, Stephen L.

of

Attorney Docket Number

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Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines,
Initials*	No. ¹	Number – Kind Code ² (if known)	MM-DD-YY	Application of Cited Document	Where Relevant Passages or Relevant Figures Appear
SR	1	US-5,734,039	03-31-98	Calabretta et al.	
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•	FOREIGN PATENT DOCUMENTS						
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,		
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Examiner's Signature	1-	Date Considered 10/14/05

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2.0 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw tine through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁵ Applicant is to place a check mark here if English language Translation

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STATEMENT BY APPLICANT	Art Unit	1642
	Examiner Name	Rawlings, Stephen L.
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^{*}EXAMINER: Initial it reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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